

Serial No. 09/987,752
Amdt. dated July 8, 2004
Reply to Office Action of March 4, 2004

Docket No. MRE-0038

Amendments to the Specification:

Please replace the paragraph starting on page 2, line 11 and ending on page 2, line 23 with the following amended paragraph:

The X-Y gantry 12 includes an Y-axis stator frame 12a, a plurality of Y-axis permanent magnets 12b, an Y-axis mover 12c, an X-axis stator frame 12d, a plurality of X-axis permanent magnets 12e, and an X-axis mover 12f. The plurality of Y-axis permanent magnets 12b consisting of N and S poles are installed on an inner sidewall of the Y-axis stator frame 12a, and the plurality of X-axis permanent magnets 12e consisting of N and S poles are installed on an inner sidewall of the X-axis stator frame 12d. The Y-axis mover 12c is installed inside the Y-axis stator frame 12a at which the Y-axis permanent magnets 12b are installed, and the ~~Y-axis~~X-axis mover 12f is installed inside the X-axis stator frame 12d.

Please replace the paragraph starting on page 4, line 21 and ending on page 5, line 12 with the following amended paragraph:

The stopper 15f installed at the stopper roller 15g is disposed at one side of the width adjusting screw 15h, and the plurality of lifting members 15e are provided between the width adjusting screw 15d and the width adjusting screw 15h. The ~~width adjusting screw 15d~~printed circuit board carrier 15 carries the printed circuit board 1 to a parts mounting work position (a). When the printed circuit board 1 ~~carried by the width adjusting screw 15d~~ is carried to the parts mounting work position (a) by the stopper 15f, the position is fixed by the lifting member 15e.

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Afterwards, the mounting of parts is finished, the printed circuit board 1 is discharged ~~by the width adjusting screw 15h of the printed circuit board 1.~~

Please replace the paragraph starting on page 11, line 19 and ending on page 11, line 27 with the following amended paragraph:

The second transfer 50 receives the printed circuit board 1 carried from the first conveyer 20-~~30~~ or the second conveyer 40 and discharges the printed circuit board 1 onto which parts have been mounted. The first transfer 20, first conveyer 30, second conveyer 40, and second transfer 50 will now be described in more detail, which carry the printed circuit board 1 to the parts mounting work position and discharges the printed circuit board 1 onto which parts have been mounted.

Please replace the paragraph starting on page 12, line 14 and ending on page 13, line 10 with the following amended paragraph:

As illustrated in Fig. 4a, the first armature coil unit 22 installed at the bottom of the first transfer base frame 21 is installed inside the first transfer stator frame 23, and a plurality of permanent magnets 23a are installed at an inner sidewall of the first transfer stator frame 23. When an electric signal is supplied to the first armature coil unit 22 installed inside the first transfer stator frame 23 at which the plurality of permanent magnets 23a are installed, there is generated a thrust force for carrying the first armature coil unit 22 between ~~the first armature coil~~

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~~unit 22 and the permanent magnets 23a.~~ By this thrust force, the first armature coil unit 22 is guided and moved to the first transfer stator frame 23 installed in the Y-axis direction. In Fig. 4a, a moving coil type linear motor is used, which includes the stator frame 23 having the plurality of permanent magnets 23a installed at its inner sidewall and the first armature coil unit 22. In place of the moving coil type linear motor, as illustrated in Fig. 4b, a moving magnet type linear motor can be used, which includes a stator frame 123 having a third armature coil unit 123a formed of a plurality of coils installed on its inner sidewall and a plurality of permanent magnets 122.

Please replace the paragraph starting on page 21, line 21 and ending on page 21, line 27 with the following amended paragraph:

Fig. 5c shows yet another surface mounting method according to the present invention, which illustrates a state in which the first conveyer 30 is moved to the second conveyer 40 to carry the printed circuit board 1 directly to the second transfer 50 and at the same time the second conveyer ~~50-40~~ is moved to a parts mounting work position.